

SEQUENCE LISTING

<110> Stubbs, Simon L.
Jones, Anne E.
Michael, Nigel P.
Thomas, Nicholas

<120> Fluorescent Proteins

<130> PA0111

<140> To be assigned
<141> 2001-09-28

<150> GB 0109858.1
<151> 2001-04-23

<160> 19

<170> PatentIn Ver. 2.1

<210> 1
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<212> DNA
<213> Aequorea victoria

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aaacttaccc ttaaatttat ttgcactact ggaaaactac ctgttccatg gccaacactt 180
gtcactactt tctcttatgg tttcaatgc ttttcaagat acccagatca tatgaaacgg 240
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tttggaaataca actataactc acacaatgta tacatcatgg cagacaaaca aaagaatgga 480
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cattatcaac aaaatactcc aattggcgtat ggcctgtcc ttttaccaga caaccattac 600
ctgtcccacac aatctgcctt ttcgaaagat cccaaacgaaa agagagacca catggtcctt 660
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<400> 2

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Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
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Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe
50 55 60

Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
65 70 75 80

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
100 105 110

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
115 120 125

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
130 135 140

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val
165 170 175

Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
180 185 190

Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
195 200 205

Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val
210 215 220

Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
225 230 235

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic
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| Glu | Leu | Asp | Gly | Asp | Val | Asn | Gly | His | Lys | Phe | Ser | Val | Ser | Gly | Glu |
| | | 20 | | | | | | 25 | | | | | | | 30 |
| Gly | Glu | Gly | Asp | Ala | Thr | Tyr | Gly | Lys | Leu | Thr | Leu | Lys | Phe | Ile | Cys |
| | 35 | | | | 40 | | | | | | | | | | 45 |
| Thr | Thr | Gly | Lys | Leu | Pro | Val | Pro | Trp | Pro | Thr | Leu | Val | Thr | Thr | Leu |
| | 50 | | | | 55 | | | | | | | | | | 60 |
| Ser | Tyr | Gly | Val | Gln | Cys | Phe | Ser | Arg | Tyr | Pro | Asp | His | Met | Lys | Arg |
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| His | Asp | Phe | Phe | Lys | Ser | Ala | Met | Pro | Glu | Gly | Tyr | Val | Gln | Glu | Arg |
| | | 85 | | | | | | 90 | | | | | | | 95 |
| Thr | Ile | Phe | Phe | Lys | Asp | Asp | Gly | Asn | Tyr | Lys | Thr | Arg | Ala | Glu | Val |
| | | 100 | | | | | | 105 | | | | | | | 110 |
| Lys | Phe | Glu | Gly | Asp | Thr | Leu | Val | Asn | Arg | Ile | Glu | Leu | Lys | Gly | Ile |
| | 115 | | | | | 120 | | | | | | | | | 125 |
| Asp | Phe | Lys | Glu | Asp | Gly | Asn | Ile | Leu | Gly | His | Lys | Leu | Glu | Tyr | Asn |
| | 130 | | | | | 135 | | | | | | | | | 140 |
| Tyr | Asn | Ser | His | Asn | Val | Tyr | Ile | Met | Ala | Asp | Lys | Gln | Lys | Asn | Gly |
| | 145 | | | | | 150 | | | | 155 | | | | | 160 |
| Ile | Lys | Val | Asn | Phe | Lys | Ile | Arg | His | Asn | Ile | Glu | Asp | Gly | Gly | Val |
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| Gln | Leu | Ala | Asp | His | Tyr | Gln | Gln | Asn | Thr | Pro | Ile | Gly | Asp | Gly | Pro |
| | | 180 | | | | | | 185 | | | | | | | 190 |
| Val | Leu | Leu | Pro | Asp | Asn | His | Tyr | Leu | Ser | Thr | Gln | Ser | Ala | Leu | Ser |
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| Lys | Asp | Pro | Asn | Glu | Lys | Arg | Asp | His | Met | Val | Leu | Leu | Gly | Phe | Val |
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Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
protein

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Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
50 55 60

Thr Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
65 70 75 80

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
100 105 110

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
115 120 125

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
130 135 140

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val
165 170 175

Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
180 185 190

Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
195 200 205

Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val
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Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
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<210> 5

<211> 42

<212> DNA

<213> Artificial Sequence

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oligonucleotide

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<210> 6

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<212> DNA

<213> Artificial Sequence

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<210> 7

<211> 45

<212> DNA

<213> Artificial Sequence

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<210> 9
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<212> DNA
<213> Artificial Sequence

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<210> 10
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<212> DNA

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<210> 13

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<212> DNA

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<210> 15

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<210> 19
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